

Dkt. 05168

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Group Art Unit: 1746

PHILIP VON SCHROETER et al

Serial No.: 10/564,161

Filed: January 11, 2006.

For: METHOD FOR REPRESENTING A DENTAL OBJECT

AND FOR PRODUCING DENTURES

SUBMISSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Honorable Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Applicants submit herewith an English translation of the International Preliminary Report on Patentability in the corresponding PCT application.

Respectfully submitted,

Ira J. Schultz

Registration No. 28666

DENNISON, SCHULTZ & MACDONALD 1727 KING STREET

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To: STOFFREGEN, Hans-H Friedrich-Ebert-Anlage 1 63450 Hanau ALLEMAGNE	Herbert 116 - STOFFREGEN - 114 u 08 JF 116 FPGE WY
IMPORTA	NT NOTIFICATION

Applicant's or agent's file reference 44 365

01 June 2006 (01.06.2006)

Date of mailing (day/month/year)

International application No. PCT/EP2004/007406

International filing date (day/month/year) 07 July 2004 (07.07.2004)

Applicant

DEGUDENT GMBH et al

1.	Transmittal	of the	translation	to	the applicant.

7	The International Bureau transmits herewith a copy of	of the English translation of the international	preliminary report on
_	patentability (Chapter I).		

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

ΚR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume Π of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Ellen Moyse

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PATENT COOPERATION TREATY

Translation

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

		 	 							
Applican 44 3	t's or agent's file references 365	FOR FURTHER	ACTION	See Form PCT/IPEA/416						
Internation	onal application No.	International filing	date (day/month/year)	Priority date (day/month/year)						
PCT	/EP2004/007	406 07.07.20	04	14.07.2003						
Internation	nternational Patent Classification (IPC) or national classification and IPC									
	A61C13/00, A61C9/00, G06F3/033									
Applicant DEGU	JDENT GMBH									
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2.	This REPORT consists	of a total of 6	sheets, includin	g this cover sheet.						
3.	This report is also accor	npanied by ANNEXES. comprising								
	a X (sent to the	applicant and to the International E	Surregul a total of 3	shorts on follows:						
				sheets, as follows: amended and are the basis for this report and/or						
		containing rectifications authorized		elle 70.16 and Section 607 of the Administrative						
				siders contain an amendment that goes beyond in item 4 of Box No. I and the Supplemental						
	\Box									
	b (sent to the l	International Bureau only) a total o	of (indicate type and numbe	r of electronic carrier(s))						
		·· ·		_ , containing a sequence listing and/or tables						
		, in computer readable form only. the Administrative Instructions).	as indicated in the Supple	mental Box Relating to Sequence Listing (see						
4.	This report contains indi	ications relating to the following ite	ems:							
	Box No. I	Basis of the report								
	Box No. II	Priority								
	Box No. III	Non-establishment of opinion wit	th regard to novelty, invent	ive step and industrial applicability						
	Box No. IV	Lack of unity of invention								
	Box No. V	Reasoned statement under Article citations and explanations suppor		lty, inventive step or industrial applicability;						
	Box No. VI	Certain documents cited								
	Box No. VII	Certain defects in the international	al application							
	Box No. VIII	Certain observations on the interr	national application							
Date of su	ubmission of the demand		Date of completion of the	is report						
Date of st	bolission of the deniand	•	Date of completion of the	is report						
Name and	d mailing address of the l	IPEA/EP	Authorized officer							
	<i>U</i>									
Facsimile	· No		Telephone No							

International application No.

PCT/EP2004/007406

Box	No. I	[Basis of the report		
1.			to the language, this report is based on the internatio	nal application in the language in	which it was filed, unless otherwise
			port is based on translations from the original langua is the language of a translation furnished for the purp		
		<u> </u>	nternational search (Rule 12.3 and 23.1(b))		
			publication of the international application (Rule 12.4)	
		Li i	nternational preliminary examination (Rule 55.2 and/	or 55.3)	
2.	rece	iving Off report): the inte	to the elements of the international application, this fice in response to an invitation under Article 14 ar ernational application as originally filed/furnished cription:		
		pages	1,3-16		as originally filed/furnished
		pages*	2,2a	received by this Authority on	12.05.2005 with fax
		pages*		received by this Authority on	<u>. </u>
	\boxtimes	the clai	ms:		
		nos.	1-18		as originally filed/furnished
		nos.*			r with any statement) under Article 19
		nos.*	19–23		•
		•		received by this Authority on	12.03.2003 WICH TAX
		nos.*		received by this Authority on	
		the drav	wings:		
		sheets	1/4-4/4 - figures 1-10		as originally filed/furnished
		sheets*		received by this Authority on	<u> </u>
		sheets*		received by this Authority on	
		a seque	nce listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence L	isting.
3.		The am	nendments have resulted in the cancellation of:		
			ne description, pages		
		\Box	ne claims, nos.	7.00	, -
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4.	Ш		port has been established as if (some of) the amend we been considered to go beyond the disclosure as fil		
		L th	ne description, pages		
		\Box	ne claims, nos.		
			ne drawings, sheets/figs		
			ne sequence listing (specify):		
		\Box	ny table(s) related to sequence listing (specify):		
*	If ite		is, some or all of those sheets may be marked "supe	rseded."	

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Box	x No. V			ticle 35(2) with regard to novelty, inventive step or industrial applicability; poorting such statement	
1.	Statement				
	Novelty ((N)	Claims	1-23	YES
			Claims		NO
	Inventive	step (IS)	Claims		YES
			Claims	1-23	NO
	Industria	l applicability (IA)	Claims	1-23	YES
			Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - 1 INDEPENDENT CLAIM 1
 - 1.1 The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claim 1 does not involve an inventive step within the meaning of PCT Article 33(3).

D1 discloses:

process for graphic representation of a digitized dental object on a monitor based on a rectangular coordinate system with x-, y- and z-axes, wherein the z-axis and the y-axis and the intersection extend in the plane of representation of the monitor and the x-axis extends perpendicularly to the plane of representation and the dental object is rotated about two axes perpendicular to each other and moved along the x-axis for the purpose of zooming in on the object.

Although the object can be moved with six degrees of freedom (albeit not readily), an operator can always ensure that the object is moved with only

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

one degree of freedom or two degrees of freedom: at least, with fewer than five degrees of freedom.

Claim 1 contains no technical features whereby the operator can readily move the object along the taxis. Moreover, zooming along the x-axis, wherein the x-axis extends along a plane spanned by the x-axis and the y-axis and passes through the origin of the coordinate system, is possible

Therefore, the subject matter of the characterizing part of claim 1 consists only in an operation by a person. Consequently, the subject matter of claim 1 does not involve an inventive step.

2 DEPENDENT CLAIMS 2-23

2.1 Claims 2-18 do not appear to contain any features which, in combination with the features of any claim to which they refer back, meet the PCT requirements for inventive step. The reasons are: these features are known from D1, D2 and D3 or merely represent minor modifications.

2.2 D3 discloses:

process for producing a dental prosthesis based on digitized data for a jaw area which is to be provided with the dental prosthesis, calculation of the dental prosthesis on the basis of the digitized data and graphic representation of the

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

dental prosthesis on a monitor, evaluation of the graphically represented dental prosthesis by moving the dental prosthesis on the monitor and, if necessary, modifying the graphically represented dental prosthesis and then producing the dental prosthesis on the basis of data corresponding to the graphically represented dental prosthesis (see claim 16).

Graphic representation on a monitor according to claim 1 is known from D1 (see paragraph 2.1). A person skilled in the art would consider use of this process for the purpose of graphic representation in the production process according to claim 19 without thereby being inventive.

A trackball is used to move the dental prosthesis on the monitor (see column 7, lines 4-6). Although D3 does not expressly state that the object can be moved on the monitor, this is implicit in the description and figure 13C. An operator can always ensure that the object is moved with only one degree of freedom or two degrees of freedom: at least, with fewer than five degrees of freedom.

Consequently, the subject matter of claim 19 does not involve an inventive step.

2.3 Claims 20-23 do not appear to contain any features which, in combination with the features of any claim to which they refer back, meet the PCT requirements for inventive step. The reasons are:

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
	these	features	are	known	from	D1	and	D3.		
									•	